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Reaction of 2-phenyl (acetyl)-5-methyldiazaphosphole with diazomethane and diazofluorene

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Abstract

1. 2-Phenyl-5-methyldiazaphosphole reacts with diazomethane with the evolution of nitrogen and the formation of a trimeric adduct of 1:1 composition. 2. The reaction of 2-acetyl-5-methyldiazaphosphole with 9-diazofluorene in pentane gives an adduct of pyrazoline structure which easily releases N2 with the formation of a trimer, obtained directly in carrying out the reaction without a solvent and in CCl4, CH2C12, or C6H6. 3. In the reaction of 9-diazofluorene with 2-phenyl-5-methyldiazaphosphole, either a trimeric adduct of 1:1 composition or its mixtrue with the corresponding pyrazoline derivatives is formed, depending on the nature of the solvent and the temperature. © 1981 Plenum Publishing Corporation.

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